codes that disclose said decryption key with expired secrecy out of a key storage, said key storage storing said at least one decryption key for decrypting information.

3.   A recording medium for storing a program according to claim 2, wherein said codes that disclose said decryption key disclose a decryption key resulting from searching a key managing table, said key managing table indicating a relation between said decryption key stored in said key storage and expiration time of secrecy of said decryption key.

4.   A recording medium for storing a program according to claim 3, wherein said search is performed based on provided time information.

5.   A recording medium for storing a program that causes an information processing apparatus to provide an encryption key used for encrypting information when executed, said program comprising:

codes that manage an encryption key for encrypting information and expiration time of secrecy correspondent to said encryption key;

code that receives a request of an encryption key with designated expiration time of secrecy; and

codes that output an encryption key correspondent to said requested expiration time of secrecy out of a key storage storing said at least one encryption key for encrypting information.

2

6.   A recording medium for storing a program according to claim 5, said program further comprising:

codes that searche a key managing table stored in a key managing table storage for an encryption key that corresponds to said requested time for encrypting information, said key managing table indicating a relation between said encryption keys stored in a key storage and expiration times of secrecy of said decryption keys; and

codes that output an encryption key resulting from said search.

7.   A recording medium for storing a program according to claim 5, said program further comprising:

codes that generate, if said key managing table does not store a key correspondent to said requested time, an encryption key meeting a requested condition;

codes that add said generated encryption key into said key managing table.

8.   A recording medium for storing program that causes an information processing apparatus to output a decryption key for encrypted data, said program comprising:

codes that acquire current time;

codes that output said decryption key with expired secrecy referring to said current time.

9.   A recording medium for storing a program according to claim 8, said program further comprising:

3

codes that compare disclosing time of a decryption key in a key managing table in a key storage and said current time, said key managing table storing at least one set of said decryption key and disclosing time indicating when secrecy of said decryption key expires; and

codes that acquire said decryption key with secrecy expired, if the current time is on or after said disclosing time as the result of said comparing said current time with said disclosing time.

10.   A recording medium for storing program according to claim 9, said program further comprising:

codes that extract said time information from encrypted data.

11.   A recording medium for storing program that causes an information processing apparatus, said program comprising:

codes that generate a set of an encryption key for encrypting information and a decryption key for decrypting the encrypted information;

codes that receive time information inputted for making secrecy of said decryption key expire;

codes that list said set of an encryption key and a decryption key with said time information in a key managing table.

4

12.   A recording medium for storing program according to claim 11, wherein said time information includes start time, end time and time interval; said program further comprising:

codes that make new expiration time by adding time interval to current expiration time of listed keys;

codes that repeat said codes that generates said set of keys and said codes that make said new expiration time.

13.   A service system for disclosing information to the public, said service system comprising:

information transmitter that distributes encrypted information with time limited secrecy; and

key controller that discloses a decryption key correspondent to the encryption key having been used for encrypting said distributed information on or after said time limited secrecy expires.

14.   A recording medium for storing program that causes an information processing apparatus to disclose information to the public when executed, said program comprising:

codes that receive time information indicating when secrecy of data to be encrypted expires;

codes that transmit said time information to an encryption key service program; and

5

codes that receive an encryption key from said encryption key service program, said encryption key corresponding to said transmitted time information.

15.   A recording medium for storing program according to claim 14, said program further comprising:

codes that encrypt said data to be encrypted by using said received encryption key.

16.   A recording medium for storing program that causes an information processing apparatus to disclose information to the public when executed, said program comprising:

codes that receive data to be encrypted and time information indicating when secrecy of said data to be encrypted expires; and

codes that encrypt said data to be encrypted by using an encryption key correspondent to said time information.

17.   A recording medium for storing program according to claim 16, said program further comprising:

codes that pack said encrypted data and said time information into a file.

18.   A recording medium for storing program that causes an information processing apparatus to disclose information to the public when executed, said program comprising:

codes that judge if secrecy of an encrypted data expires; and

codes that acquire a disclosed description key for said encrypted data with expired secrecy period.

19.   A recording medium for storing program according to claim 18, wherein said codes that judge comprises:

codes that acquire time information out of a file including said encrypted data, said time information indicating when secrecy of said encrypted data expires; and

codes that compare current time with said time information.

20.   A recording medium for storing program according to claim 19, further comprising:

codes that decrypt said encrypted data with expired secrecy by using said acquired decryption key. --